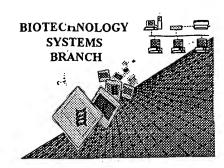
## RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	09/900,038	
Source:	OIPE	·
Date Processed by STIC:	7/24/2001	

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: <a href="mailto:patin21help@uspto.gov">patin21help@uspto.gov</a> or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: <a href="mailto:patin3help@uspto.gov">patin3help@uspto.gov</a> or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

## Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/900,038

DATE: 07/24/2001 TIME: 11:10:29

Does Not Comply Corrected Diskette Needed

Input Set : A:\766.53 CRF.txt

Output Set: N:\CRF3\07242001\1900038.raw

3 <110> APPLICANT: KYOWA HAKKO KOGYO CO., LTD.

5 <120> TITLE OF INVENTION: Beta 1,3-galactosyltransferase and DNA encoding the same

7 <130> FILE REFERENCE: 11328

9 <140> CURRENT APPLICATION NUMBER: US/09/900,038

9 <141> CURRENT FILING DATE: 2001-07-09

W--> 10 <151> PRIOR APPLICATION NUMBER: - JR 2001-392

W--> 10 <151> PRIOR FILING DATE: 2001-1-5 2001-01-05 & use this date format

12 <160> NIIMBER OF SEC ID NOS. 9

12 <160> NUMBER OF SEQ ID NOS: 8

14 <170> SOFTWARE: PatentIn Ver. 2.0

## **ERRORED SEQUENCES**

10 <210> SEQ ID NO: 1 17 <211> LENGTH: 6 mardatogresperse needed - 3/3 shown (p2) 18 <212> TVDE. DDG 18 <212> TYPE: PRT 19 <213> ORGANISM: Streptococcus agalactiae Type Ib ( 20 <400 > SEQUENCE: 1 Met Asn Tyr Ser Ile Ile Met Ser Val Tyr Asn Glu Pro Leu Asn Tyr 22 10 24 Val Arg Asp Ser Val Glu Ser Ile Leu Asn Gln Thr Leu Thr Asp Phe 25 Glu Phe Ile Ile Val Ile Asp Asn Pro Ser Arg Gly Asp Leu Lys Gln 27 28 40 Phe Leu Thr Glu Tyr Ser Val Val Asp Asn Arg Ile Lys Ile Leu Leu 31 Asn Glu Glu Asn Ile Gly Leu Ala Ser Ser Leu Asn Lys Ala Val Lys 33 34 Ile Ser Lys Gly Glu Tyr Ile Phe Arg Met Asp Ala Asp Asp Ile Ser 36 37 39 Tyr Pro Ser Arg Phe Asp Lys Gln Ile Arg Phe Met Glu Glu Asn Ser 40 105 42 Leu Asp Phe Ser Ala Thr Leu Ile Glu Leu Ile Asp Gln Lys Gly Asn 43 120 125 45 Leu Val Tyr Lys Gln Arg Glu Ser Asn Lys Ile Tyr Leu Thr Asn Asp 46 135 Ile Arg Lys Met Leu Leu Asn Arg Ser Ile Leu Ala His Pro Thr Trp 48 49 150 . 155 51 Cys Val Lys Lys Lys Val Phe Asp Lys Leu Met Gly Tyr Arg Asp Leu 52 54 Val Pro Val Glu Asp Tyr Asp Phe Ala Ile Arg Gly Ala Leu Ala Asp 55 185 Phe Lys Ile Gly Leu Leu Asn Lys Val Leu Leu Gln Tyr Arg Leu Asn 57 58 200 60 Glu Asn Gly Ile Ser Gln Thr Asn Lys Phe Lys Gln Tyr Ile Tyr Ser 61 215 Ala Ile Leu Gln Asp Phe Tyr Lys Glu Lys Ser Tyr Ile Asp Ile Thr

RAW SEQUENCE LISTING

DATE: 07/24/2001

PATENT APPLICATION: US/09/900,038 TIME: 11:10:29

Input Set : A:\766.53 CRF.txt

Output Set: N:\CRF3\07242001\1900038.raw

```
64
                                                   235
          Lys Ile Thr Asn Tyr Phe Gln Glu Tyr Val Ile Lys Lys Arg Tyr Thr
     66
                                               250
     67
                          245
          Gln Glu Leu Ser Lys Tyr Phe Glu Leu Lys Ser Thr Pro Ser Ile
     69
                                          265
     70
          Thr Ile Arg Lys Leu Tyr Ile Cys Leu Tyr Leu Tyr Phe Lys Ser Pro
     72
     73
                                      280
                                                           285
     75
          Leu Val Arg Arg Leu Leu Ile Asn Asp Ile Asn Ile Leu Val Leu Lys
     76
                                  295
                                          ASP sunter the arms acros under every > amos acros out
     78
          Leu Phe Gly Gly Glu Lys Gln Ser Asp
E--> 79
     81 <210> SEQ ID NO: 2
82 <211> LENGTH: Esame ever 939 shown (1.3)
     81 <210> SEQ ID NO: 2
     83 <212> TYPE: DNA
     84 <213> ORGANISM: Streptococcus agalactiae Type Ib
% 6≯ 85 <400> SEQUENCE: 2
          atg aat tat agt atc att atg tcg gta tat aat gag cct tta aat tat
                                                                              48
          Met Asn Tyr Ser Ile Ile Met Ser Val Tyr Asn Glu Pro Leu Asn Tyr
     87
     88
                                               10
          gtg aga gat toa gta gaa tot ata tta aat caa acg ott act gat ttt
     90
                                                                              96
          Val Arg Asp Ser Val Glu Ser Ile Leu Asn Gln Thr Leu Thr Asp Phe
     91
     92
     94
          gag ttc ata att gtc att gat aat cca agt aga ggt gat tta aag caa
                                                                              144
          Glu Phe Ile Ile Val Ile Asp Asn Pro Ser Arg Gly Asp Leu Lys Gln
     95
     96
                                       40
          ttc tta aca qaa tat tca qtt qta qat aat aqa ata aaa atc ttq ctt
     98
          Phe Leu Thr Glu Tyr Ser Val Val Asp Asn Arg Ile Lys Ile Leu Leu
     99
     100
                50
                                    55
     102
           aat gaa gaa aat att ggt tta gca tca agt ttg aac aaa gcg gtg aaa
                                                                               240
     103
           Asn Glu Glu Asn Ile Gly Leu Ala Ser Ser Leu Asn Lys Ala Val Lys
     104
                                70
                                                    75
     106
           att tot aag gga gaa tat att ttt aga atg gat got gat gat att toa
                                                                               288
     107
           Ile Ser Lys Gly Glu Tyr Ile Phe Arg Met Asp Ala Asp Asp Ile Ser
     108
                                                 90
                            85
     110
           tat cca agt aga ttt gat aag caa att cgt ttt atg gag gaa aat tca
                                                                               336
     111
           Tyr Pro Ser Arg Phe Asp Lys Gln Ile Arg Phe Met Glu Glu Asn Ser
    112
                       100
                                            105
    114
           ttg gat ttc tca gca act cta ata gaa ttg ata gac caa aaa gga aat
                                                                               384
    115
           Leu Asp Phe Ser Ala Thr Leu Ile Glu Leu Ile Asp Gln Lys Gly Asn
    116
                                       120
    118
           tta gta tat aaa caa cga gaa agt aat aaa ata tac tta act aat gat
                                                                               432
           Leu Val Tyr Lys Gln Arg Glu Ser Asn Lys Ile Tyr Leu Thr Asn Asp
    119
                                 135
    120
                                                        140
           ata cgg aag atg tta ttg aat aga tct ata ctt gcc cac cca acg tgg
    122
                                                                               480
    123
           Ile Arg Lys Met Leu Leu Asn Arg Ser Ile Leu Ala His Pro Thr Trp
    124
                               150
                                                    155
    126
           tgc gta aaa aag aaa gtt ttc gat aag tta atg gga tat aga gat tta
                                                                               528
    127
           Cys Val Lys Lys Lys Val Phe Asp Lys Leu Met Gly Tyr Arg Asp Leu
    128
                           165
                                                170
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RAW SEQUENCE LISTING DATE: 07/24/2001 TIME: 11:10:29 PATENT APPLICATION: US/09/900,038

Input Set : A:\766.53 CRF.txt
Output Set: N:\CRF3\07242001\I900038.raw

	130 131	-		-	-	_		-		_		_		gct Ala	_	_		576
	132	Vai	FIO	Val	180	кър	1 7 1	nsp	FIIC	185	116	AIG	GLY	Ala	190	АТа	rsb	
	134	ttc	aaa	atc	ggc	tta	ctc	aat	aaa	gta	ctt	tta	cag	tat	aga	tta	aac	624
	135	Phe	Lys	Ile	Gly	Leu	Leu	Asn	Lys	Val	Leu	Leu	Gln	Tyr	Arg	Leu	Asn	
	136			195					200					205				
	138									_		_		tat				672
	139	Glu		Gly	Ile	Ser	Gln		Asn	Lys	Phe	Lys		Tyr	Ile	Tyr	Ser	
	140		210					215					220					=
	142	-				-				-				att	-			720
	143 144	225	тте	ьeu	GIN	Asp	230	Tyr	гàг	GIU	гĀг	235	туг	Ile	Asp	тте	1nr 240	
	144		a++	a 0 t	22 <b>+</b>	t = 0		<b>722</b>	a a a	tat	ata		220	aaa	aaa	+ = +		768
	147								-		-		_	Lys	_			700
	148	LJS	110		11011	245	1 110	OII.	O L u	- 1 -	250	110	1,5	<b>1</b> , 5	9	255	1111	
	150	cag	caa	gag	ctc	tct	aaa	tat	ttt	gag	cta	aaa	tct	acc	cct	agt	att	816
	151	Gln	Gln	Glu	Leu	Ser	Lys	Tyr	Phe	Glu	Leu	Lys	Ser	Thr	Pro	Ser	Ile	
	152				260					265					270			
	154			_					_					ttt	_			864
	155	Thr	Ile	_	Lys	Leu	$\mathtt{Tyr}$	Ile	_	Leu	$\mathtt{Tyr}$	Leu	$\mathtt{Tyr}$	Phe	Lys	Ser	Pro	
	156			275					280					285				
	158													tta				912
	159	Leu		Arg	Arg	Leu	Leu		Asn	Asp	тте	Asn		Leu	Val	Leu	Lys	
	160 162	++~	290	~~~	~~~	~~~		295	- ~+	~~~			300					939
	163					gag Glu												939
(H <->		305	rne	GIY	GIY	Giu	310	GIII	361	пор								
g,		<210>	SEO	ID N	10: 8	3	310			•		•						
			LENGTH: 32															
			TYPE: DNA															
	733	<213>	ORGANISM: Artificial Sequence															
Q(6>	734	<220>	FEATURE:															
•			OTHER INFORMATION: Synthetic DNA															
E>			sequence: 6 8 (insert)															
	737	ccggaattcg aaaaggtaaa gtgtctccga aa										32						

VERIFICATION SUMMARY

DATE: 07/24/2001 PATENT APPLICATION: US/09/900,038 TIME: 11:10:30

Input Set : A:\766.53 CRF.txt

Output Set: N:\CRF3\07242001\1900038.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:10 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD L:20 M:283 W: Missing Blank Line separator, <400> field identifier L:79 M:252 E: No. of Seq. differs, <211>LENGTH:Input:0 Found:313 SEQ:1 L:85 M:283 W: Missing Blank Line separator, <400> field identifier L:164 M:252 E: No. of Seq. differs, <211>LENGTH:Input:0 Found:939 SEQ:2 L:693 M:283 W: Missing Blank Line separator, <220> field identifier L:695 M:283 W: Missing Blank Line separator, <400> field identifier L:704 M:283 W: Missing Blank Line separator, <220> field identifier L:706 M:283 W: Missing Blank Line separator, <400> field identifier L:714 M:283 W: Missing Blank Line separator, <220> field identifier L:716 M:283 W: Missing Blank Line separator, <400> field identifier L:724 M:283 W: Missing Blank Line separator, <220> field identifier L:726 M:283 W: Missing Blank Line separator, <400> field identifier L:734 M:283 W: Missing Blank Line separator, <220> field identifier L:736 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:8 differs:7 L:736 M:283 W: Missing Blank Line separator, <400> field identifier